



SEQUENCE LISTING

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Epimmune, Inc.

<120> Inducing Cellular Immune Responses to
p53 Using Peptide and Nucleic Acid Compositions

<130> 018623-014500US

<140> US 09/458,297

<141> 1999-12-10

<150> US 08/027,146

<151> 1993-03-05

<150> US 08/073,205

<151> 1993-06-04

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<151> 1993-11-29

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<151> 1994-03-04

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<151> 1998-11-10

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<220>

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Asn Thr Ser Ser Ser Pro Gln Pro Lys
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<210> 762

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<220>

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<400> 762

Asn Thr Ser Ser Ser Pro Gln Pro Lys Lys
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<211> 11

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Pro Gly Pro Asp Glu Ala Pro Arg
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<210> 775

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Pro Gly Thr Arg Val Arg Ala Met Ala
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<210> 776

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Pro Gly Thr Arg Val Arg Ala Met Ala Ile Tyr
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<210> 777

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Pro Leu Ser Ser Ser Val Pro Ser Gln Lys
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<400> 778

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<400> 779

Pro Thr Pro Ala Ala Pro Ala Pro Ala
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Pro Val Ala Pro Ala Pro Ala Ala
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 1 5 10

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<400> 784
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<210> 785
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<400> 786

Gln Ser Gln His Met Thr Glu Val Val Arg
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<400> 787

Gln Ser Gln His Met Thr Glu Val Val Arg Arg
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<400> 788

Gln Ser Thr Ser Arg His Lys Lys
1 5

<210> 789

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<400> 789

Gln Ser Thr Ser Arg His Lys Lys Leu Met Phe
1 5 10

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<400> 790

Arg Ala His Ser Ser His Leu Lys
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Arg	Ala	His	Ser	Ser	His	Leu	Lys	Ser	Lys	Lys
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1 5 10

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Arg Gly Arg Glu Arg Phe Glu Met Phe
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1 5 10

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<400> 802
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<400> 809

Arg Val Glu Tyr Leu Asp Asp Arg
1 5

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Ser Asp Cys Thr Thr Ile His Tyr Asn Tyr
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1 5 10

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1 5

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<400> 832

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<400> 833

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1

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<400> 836

Ser Thr Ser Arg His Lys Lys Leu Met Phe

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Ser Thr Ser Arg His Lys Lys Leu Met Phe Lys

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<400> 839
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1 5

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<212> PRT

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Thr	Phe	Arg	His	Ser	Val	Val	Val	Pro	Tyr
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Thr	Leu	Gln	Ile	Arg	Gly	Arg	Glu	Arg	Phe
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Thr	Ser	Arg	His	Lys	Lys	Leu	Met	Phe
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<400> 850
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<400> 852
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1 5

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1 5 10

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Pro Leu Ser Ser Ser Val Pro Ser Gln Lys
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Pro Asn Asn Thr Ser Ser Ser Pro Gln Pro Lys
1 5 10

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<400> 972

Pro Ser Gln Lys Thr Tyr Gln Gly Ser Tyr
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Val	Gly	Ser	Asp	Cys	Thr	Thr	Ile	His	Tyr
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Phe	Cys	Gln	Leu	Ala	Lys	Thr	Cys	Pro	Val	Gln	Leu	Trp	Val	Asp
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Phe	Ser	Asp	Leu	Trp	Lys	Leu	Leu	Pro	Glu	Asn	Asn	Val	Leu	Ser
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<400> 1071

Gly	Thr	Arg	Val	Arg	Ala	Met	Ala	Ile	Tyr	Lys	Gln	Ser	Gln	His
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His	His	Glu	Leu	Pro	Pro	Gly	Ser	Thr	Lys	Arg	Ala	Leu	Pro	Asn
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<210> 1086

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<210> 1087

<211> 15

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<400> 1087

Pro	Val	Gln	Leu	Trp	Val	Asp	Ser	Thr	Pro	Pro	Pro	Gly	Thr	Arg
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<210> 1088

<211> 15

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<400> 1088

Gln	Leu	Trp	Val	Asp	Ser	Thr	Pro	Pro	Pro	Gly	Thr	Arg	Val	Arg
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<210> 1089

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<400> 1089

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<210> 1090
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 Arg Asn Ser Phe Glu Val Arg Val Cys Ala Cys Pro Gly Arg Asp
 1 5 10 15

<210> 1091
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 Arg Asn Thr Phe Arg His Ser Val Val Val Pro Tyr Glu Pro Pro
 1 5 10 15

<210> 1092
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 Arg Pro Ile Leu Thr Ile Ile Thr Leu Glu Asp Ser Ser Gly Asn
 1 5 10 15

<210> 1093
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 Arg Arg Pro Ile Leu Thr Ile Ile Thr Leu Glu Asp Ser Ser Gly
 1 5 10 15

<210> 1094
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Ser Phe Glu Val Arg Val Cys Ala Cys Pro Gly Arg Asp Arg Arg
1 5 10 15

<210> 1095

<211> 15

<212> PRT

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Ser Gly Asn Leu Leu Gly Arg Asn Ser Phe Glu Val Arg Val Cys
1 5 10 15

<210> 1096

<211> 15

<212> PRT

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Ser Pro Ala Leu Asn Lys Met Phe Cys Gln Leu Ala Lys Thr Cys
1 5 10 15

<210> 1097

<211> 15

<212> PRT

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<400> 1097

Ser Gln Ala Met Asp Asp Leu Met Leu Ser Pro Asp Asp Ile Glu
1 5 10 15

<210> 1098

<211> 15

<212> PRT

<213> Artificial Sequence

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Ser Ser Ser Val Pro Ser Gln Lys Thr Tyr Gln Gly Ser Tyr Gly
1 5 10 15

<210> 1099

<211> 15

<212> PRT

<213> Artificial Sequence

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<400> 1099

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<400> 1100

Ser	Trp	Pro	Leu	Ser	Ser	Ser	Val	Pro	Ser	Gln	Lys	Thr	Tyr	Gln
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<210> 1101

<211> 15

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Ser	Tyr	Gly	Phe	Arg	Leu	Gly	Phe	Leu	His	Ser	Gly	Thr	Ala	Lys
1				5					10					15

<210> 1102

<211> 15

<212> PRT

<213> Artificial Sequence

<220>

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<400> 1102

Val	Glu	Tyr	Leu	Asp	Asp	Arg	Asn	Thr	Phe	Arg	His	Ser	Val	Val
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<210> 1103

<211> 15

<212> PRT

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<220>

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<400> 1103

Val	Gln	Leu	Trp	Val	Asp	Ser	Thr	Pro	Pro	Pro	Gly	Thr	Arg	Val
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<220>
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 1 5 10 15

<210> 1105
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 <212> PRT
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<220>
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 1 5 10 15

<210> 1106
 <211> 15
 <212> PRT
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<220>
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 Tyr Asn Tyr Met Cys Asn Ser Ser Cys Met Gly Gly Met Asn Arg
 1 5 10 15

<210> 1107
 <211> 15
 <212> PRT
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<220>
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 1 5 10 15

<210> 1108
 <211> 15
 <212> PRT
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<400> 1108

Glu	Gly	Asn	Leu	Arg	Val	Glu	Tyr	Leu	Asp	Asp	Arg	Asn	Thr	Phe
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<210> 1109

<211> 15

<212> PRT

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<220>

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Glu	Pro	Pro	Leu	Ser	Gln	Glu	Thr	Phe	Ser	Asp	Leu	Trp	Lys	Leu
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<210> 1110

<211> 15

<212> PRT

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Glu	Gln	Trp	Phe	Thr	Glu	Asp	Pro	Gly	Pro	Asp	Glu	Ala	Pro	Arg
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<210> 1111

<211> 15

<212> PRT

<213> Artificial Sequence

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<400> 1111

Lys	Lys	Pro	Leu	Asp	Gly	Glu	Tyr	Phe	Thr	Leu	Gln	Ile	Arg	Gly
1				5					10					15

<210> 1112

<211> 15

<212> PRT

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<400> 1112

Leu	Thr	Ile	Ile	Thr	Leu	Glu	Asp	Ser	Ser	Gly	Asn	Leu	Leu	Gly
1				5					10					15

<210> 1113

<211> 15

<212> PRT

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<220>

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<400> 1113

Leu	Trp	Lys	Leu	Leu	Pro	Glu	Asn	Asn	Val	Leu	Ser	Pro	Leu	Pro
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<210> 1114

<211> 15

<212> PRT

<213> Artificial Sequence

<220>

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<400> 1114

Pro	Pro	Glu	Val	Gly	Ser	Asp	Cys	Thr	Thr	Ile	His	Tyr	Asn	Tyr
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<210> 1115

<211> 15

<212> PRT

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<400> 1115

Pro	Val	Gln	Leu	Trp	Val	Asp	Ser	Thr	Pro	Pro	Pro	Gly	Thr	Arg
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<210> 1116

<211> 15

<212> PRT

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<400> 1116

Gln	His	Leu	Ile	Arg	Val	Glu	Gly	Asn	Leu	Arg	Val	Glu	Tyr	Leu
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<210> 1117

<211> 15

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<400> 1117

Arg	Phe	Glu	Met	Phe	Arg	Glu	Leu	Asn	Glu	Ala	Leu	Glu	Leu	Lys
1				5					10					15

<210> 1118
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 <212> PRT
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 Arg Val Glu Tyr Leu Asp Asp Arg Asn Thr Phe Arg His Ser Val
 1 5 10 15

<210> 1119
 <211> 15
 <212> PRT
 <213> Artificial Sequence

<220>
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<400> 1119
 Ser Val Val Val Pro Tyr Glu Pro Pro Glu Val Gly Ser Asp Cys
 1 5 10 15

<210> 1120
 <211> 15
 <212> PRT
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<220>
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<400> 1120
 Gly Glu Tyr Phe Thr Leu Gln Ile Arg Gly Arg Glu Arg Phe Glu
 1 5 10 15

<210> 1121
 <211> 15
 <212> PRT
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<220>
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<400> 1121
 Leu Ile Arg Val Glu Gly Asn Leu Arg Val Glu Tyr Leu Asp Asp
 1 5 10 15

<210> 1122
 <211> 15
 <212> PRT
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<220>
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<400> 1122

Met Ala Ile Tyr Lys Gln Ser Gln His Met Thr Glu Val Val Arg
 1 5 10 15

<210> 1123

<211> 9

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic Peptide

<400> 1123

Val Thr Cys Thr Tyr Ser Pro Ala Leu
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<210> 1124

<211> 9

<212> PRT

<213> Artificial Sequence

<220>

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<400> 1124

Leu Lys Asp Ala Gln Ala Gly Lys Glu
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<210> 1125

<211> 9

<212> PRT

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<220>

<223> Synthetic Peptide

<400> 1125

Val Ala Pro Ala Pro Ala Ala Pro Thr
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<210> 1126

<211> 9

<212> PRT

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<220>

<223> Synthetic Peptide

<400> 1126

Met Pro Glu Ala Ala Pro Pro Val Ala
 1 5

<210> 1127

<211> 9

<212> PRT

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<220>
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<400> 1127
Trp Pro Leu Ser Ser Ser Val Pro Ser
1 5

<210> 1128
<211> 9
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<400> 1128
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1 5

<210> 1129
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<212> PRT
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Tyr Phe Thr Leu Gln Ile Arg Gly Arg
1 5

<210> 1130
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<212> PRT
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1 5

<210> 1131
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1 5

<210> 1132
<211> 9
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<400> 1132
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1 5

<210> 1133
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1 5

<210> 1134
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1 5

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1 5

<210> 1136
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<400> 1136
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1 5

<210> 1137
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<220>
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<400> 1137
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1 5

<210> 1138
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<400> 1138
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1 5

<210> 1139
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<400> 1139
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1 5

<210> 1140
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<210> 1141
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<220>

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<400> 1141

Trp Phe Thr Glu Asp Pro Gly Pro Asp
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<210> 1142

<211> 9

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<213> Artificial Sequence

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<400> 1142

Leu Pro Asn Asn Thr Ser Ser Ser Pro
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<210> 1143

<211> 9

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<220>

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<400> 1143

Leu His Ser Gly Thr Ala Lys Ser Val
1 5

<210> 1144

<211> 9

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<400> 1144

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<210> 1145

<211> 9

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<220>

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<400> 1145

Leu Pro Ser Gln Ala Met Asp Asp Leu
1 5

<210> 1146
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<220>
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<400> 1146
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1 5

<210> 1147
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<220>
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<400> 1148
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1 5

<210> 1149
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1 5

<210> 1151
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<400> 1152
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1 5

<210> 1153
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<210> 1156

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<210> 1157

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<210> 1158

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<400> 1158

Leu Thr Ile Ile Thr Leu Glu Asp Ser
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<210> 1159

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<220>

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<400> 1159

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<400> 1160
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1 5

<210> 1161
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<210> 1162
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<400> 1162
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1 5

<210> 1163
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<212> PRT
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<400> 1163
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1 5

<210> 1164
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<220>
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<400> 1164
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<210> 1165
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<220>
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<400> 1165
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<210> 1166
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<400> 1166
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<210> 1167
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<400> 1167
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<210> 1168
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<400> 1168
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<400> 1169
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<210> 1170
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<400> 1170
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<400> 1171
 Leu Pro Glu Asn Asn Val Leu Ser Pro
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<210> 1172
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<400> 1172
 Met Cys Asn Ser Ser Cys Met Gly Gly
 1 5

<210> 1173
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<400> 1173
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<210> 1174
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<400> 1174
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1 5

<210> 1175
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<400> 1175
Leu Ser Gln Glu Thr Phe Ser Asp Leu
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<210> 1176
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<400> 1176
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1 5

<210> 1177
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<400> 1177
Leu Asp Gly Glu Tyr Phe Thr Leu Gln
1 5

<210> 1178
<211> 9
<212> PRT
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<220>
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<400> 1178
Ile Thr Leu Glu Asp Ser Ser Gly Asn
1 5

<210> 1179
<211> 9
<212> PRT
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<220>
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<400> 1179
Leu Leu Pro Glu Asn Asn Val Leu Ser
1 5

<210> 1180
<211> 9
<212> PRT
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<220>
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<400> 1180
Val Gly Ser Asp Cys Thr Thr Ile His
1 5

<210> 1181
<211> 9
<212> PRT
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<220>
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<400> 1181
Leu Trp Val Asp Ser Thr Pro Pro Pro
1 5

<210> 1182
<211> 9
<212> PRT
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<220>
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<400> 1182
Ile Arg Val Glu Gly Asn Leu Arg Val
1 5

<210> 1183
<211> 9
<212> PRT
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<220>

<223> Synthetic Peptide

<400> 1183

Met Phe Arg Glu Leu Asn Glu Ala Leu
1 5

<210> 1184

<211> 9

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic Peptide

<400> 1184

Tyr Leu Asp Asp Arg Asn Thr Phe Arg
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<210> 1185

<211> 9

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<220>

<223> Synthetic Peptide

<400> 1185

Val Pro Tyr Glu Pro Pro Glu Val Gly
1 5

<210> 1186

<211> 9

<212> PRT

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<400> 1186

Phe Thr Leu Gln Ile Arg Gly Arg Glu
1 5

<210> 1187

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<220>

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<400> 1187

Val Glu Gly Asn Leu Arg Val Glu Tyr
1 5

<210> 1188
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<400> 1188
 Tyr Lys Gln Ser Gln His Met Thr Glu
 1 5

<210> 1189
 <211> 9
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<400> 1189
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 1 5

<210> 1190
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<400> 1190
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 1 5 10

<210> 1191
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<400> 1191
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 1 5 10

<210> 1192
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<400> 1192
Phe Leu Pro Ser Asp Tyr Phe Pro Ser Val
1 5 10

<210> 1193
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<400> 1193
Phe Leu Pro Ser Asp Tyr Phe Pro Ser Val
1 5 10

<210> 1194
<211> 10
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<400> 1194
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1 5 10

<210> 1195
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 1 5 10

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 1 5 10

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Lys	Val	Tyr	Gln	Gly	Ser	Tyr	Gly	Phe	Arg
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Lys	Val	Tyr	Gln	Gly	Ser	Tyr	Gly	Phe	Lys
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Asx	Val	Tyr	Ser	Pro	Ala	Leu	Asn	Lys
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Ser Val Asx Met Gly Gly Met Asn Arg
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Arg Val Asx Ala Asx Pro Gly Arg Asp Arg Lys
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Ser Val Ser Arg His Lys Lys Leu Met Phe Lys
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<400> 1291

Ser Val Ser Arg His Lys Lys Leu Met Phe Arg
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Lys Met Phe Cys Gln Leu Ala Lys Thr
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Leu Leu Gly Arg Asp Ser Phe Glu Val
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<400> 1294

Leu Leu Gly Arg Asp Ser Phe Glu Val
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1 5

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<400> 1302

Ser Tyr Gly Phe Arg Leu Gly Phe
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<210> 1307

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1 5

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1 5

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<210> 1372

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<211> 17

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Lys Thr Cys Pro Val Gln Leu Trp Val
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Tyr Met Cys Asn Ser Ser Cys Met Gly Gly Met
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Ala Ala Pro Pro Val Ala Pro Ala
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 Ile Thr Leu Glu Asp Ser Ser Gly Asn Leu Leu
 1 5 10

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 1 5 10

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<400> 1461
 Gly Phe Arg Leu Gly Phe Leu His Ser Gly Thr Ala Lys Ser Val
 1 5 10 15

<210> 1462
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 1 5 10 15

<210> 1463
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 1 5 10 15

<210> 1464
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 Arg Arg Pro Ile Leu Thr Ile Ile Thr Leu Glu Asp Ser Ser Gly
 1 5 10 15

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 Lys Arg Ala Leu Pro Asn Asn Thr Ser Ser Ser Pro Gln Pro Lys
 1 5 10 15

<210> 1466
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Asp Gly Glu Tyr Phe Thr Leu Gln Ile Arg Gly Arg Glu Arg Phe
 1 5 10 15

<210> 1467

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Gly Phe Arg Leu Gly Phe Leu His Ser Gly Thr Ala Lys Ser Val
 1 5 10 15

<210> 1468

<211> 14

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<400> 1468

Leu Asn Lys Met Phe Cys Gln Leu Ala Lys Thr Cys Pro Val
 1 5 10

<210> 1469

<211> 15

<212> PRT

<213> Artificial Sequence

<220>

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<400> 1469

Glu Pro Pro Leu Ser Gln Glu Thr Phe Ser Asp Leu Trp Lys Leu
 1 5 10 15

<210> 1470

<211> 15

<212> PRT

<213> Artificial Sequence

<220>

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<400> 1470

Leu Trp Lys Leu Leu Pro Glu Asn Asn Val Leu Ser Pro Leu Pro
 1 5 10 15

<210> 1471

<211> 15

<212> PRT

<213> Artificial Sequence

<220>

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<400> 1471

Asp	Leu	Met	Leu	Ser	Pro	Asp	Asp	Ile	Glu	Gln	Trp	Phe	Thr	Glu
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<212> PRT

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<220>

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<400> 1472

Glu	Gln	Trp	Phe	Thr	Glu	Asp	Pro	Gly	Pro	Asp	Glu	Ala	Pro	Arg
1				5					10					15

<210> 1473

<211> 15

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<220>

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<400> 1473

Pro	Val	Gln	Leu	Trp	Val	Asp	Ser	Thr	Pro	Pro	Pro	Gly	Thr	Arg
1				5					10					15

<210> 1474

<211> 15

<212> PRT

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<400> 1474

Met	Ala	Ile	Tyr	Lys	Gln	Ser	Gln	His	Met	Thr	Glu	Val	Val	Arg
1				5					10					15

<210> 1475

<211> 15

<212> PRT

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<220>

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<400> 1475

Gln	His	Leu	Ile	Arg	Val	Glu	Gly	Asn	Leu	Arg	Val	Glu	Tyr	Leu
1				5					10					15

<210> 1476
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<220>
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 Leu Ile Arg Val Glu Gly Asn Leu Arg Val Glu Tyr Leu Asp Asp
 1 5 10 15

<210> 1477
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<400> 1477
 Glu Gly Asn Leu Arg Val Glu Tyr Leu Asp Asp Arg Asn Thr Phe
 1 5 10 15

<210> 1478
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<220>
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<400> 1478
 Arg Val Glu Tyr Leu Asp Asp Arg Asn Thr Phe Arg His Ser Val
 1 5 10 15

<210> 1479
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 <212> PRT
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<220>
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 Ser Val Val Val Pro Tyr Glu Pro Pro Glu Val Gly Ser Asp Cys
 1 5 10 15

<210> 1480
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<400> 1480

Pro	Pro	Glu	Val	Gly	Ser	Asp	Cys	Thr	Thr	Ile	His	Tyr	Asn	Tyr
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<210> 1481

<211> 15

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<220>

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<400> 1481

Leu	Thr	Ile	Ile	Thr	Leu	Glu	Asp	Ser	Ser	Gly	Asn	Leu	Leu	Gly
1				5					10				15	

<210> 1482

<211> 15

<212> PRT

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<220>

<223> Synthetic Peptide

<400> 1482

Lys	Lys	Pro	Leu	Asp	Gly	Glu	Tyr	Phe	Thr	Leu	Gln	Ile	Arg	Gly
1				5					10				15	

<210> 1483

<211> 15

<212> PRT

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<220>

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<400> 1483

Gly	Glu	Tyr	Phe	Thr	Leu	Gln	Ile	Arg	Gly	Arg	Glu	Arg	Phe	Glu
1				5					10				15	

<210> 1484

<211> 15

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<400> 1484

Arg	Phe	Glu	Met	Phe	Arg	Glu	Leu	Asn	Glu	Ala	Leu	Glu	Leu	Lys
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<210> 1485

<211> 15

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<400> 1485

Gly	Phe	Arg	Leu	Gly	Phe	Leu	His	Ser	Gly	Thr	Ala	Lys	Ser	Val
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<210> 1486

<211> 15

<212> PRT

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<220>

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<400> 1486

Leu	Asn	Lys	Met	Phe	Cys	Gln	Leu	Ala	Lys	Thr	Cys	Pro	Val	Gln
1				5					10					15

<210> 1487

<211> 14

<212> PRT

<213> Artificial Sequence

<220>

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<400> 1487

Gln	Tyr	Ile	Lys	Ala	Asn	Ser	Lys	Phe	Ile	Gly	Ile	Thr	Glu
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<210> 1488

<211> 21

<212> PRT

<213> Plasmodium falciparum

<400> 1488

Asp	Ile	Glu	Lys	Lys	Ile	Ala	Lys	Met	Glu	Lys	Ala	Ser	Ser	Val	Phe
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Asn	Val	Val	Asn	Ser											
				20											

<210> 1489

<211> 16

<212> PRT

<213> Streptococcus Aureus

<400> 1489

Gly	Ala	Val	Asp	Ser	Ile	Leu	Gly	Gly	Val	Ala	Thr	Tyr	Gly	Ala	Ala
1				5					10					15	

<210> 1490

<211> 13

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